A Project Report

On

**Discovering Financial Markets  
using Python**

**Submitted by**

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19/05/2023



**DECLARATION**

We ***Yash Jain [B.Tech(Hons.) 1st year,(2215800033), Ayush Ponia [B.Tech(Hons.) 1st year (2215800004)]*** hereby declare that the work presented in this project report entitled ***Discovering Financial Markets Using Python*** is an authentic record of our own work carried out under supervision of ***Mr.Anoop Verma [Trainer, IKIGAI LAB]***

***Yash Jain***(***2215800033***) ***Ayush Ponia (2215800004)***

**CERTIFICATE**

This is to certify that the above statement made by the students are correct to the best of my knowledge and belief.

Date:19/05/2023

Place: Mathura

Name and Signature with Affiliation of Supervisor



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**Chapter - 1**

**Introduction, Motivation and Objective**

*The goal of this project is to analyze financial data using the yfinance module in Python. The project will involve fetching financial data from Yahoo Finance using the yfinance module, processing the data, and visualizing it using various visualization libraries such as Matplotlib.*

*The yfinance module provides an easy-to-use interface for accessing financial data from Yahoo Finance. It is a powerful tool for financial analysis and can be used for a wide range of applications such as stock trading, portfolio management, and financial research. The module is constantly updated and maintained by the community, ensuring that it is always up-to-date with the latest financial data.*



**Chapter - 2**

**Description and Work done**

*1. Introduction to yfinance module and its installation.*

*2. Fetching financial data using the Ticker object in yfinance.*

*3. Analyzing and processing financial data using Pandas DataFrame.*

*4. Visualizing financial data using Matplotlib and Seaborn.*

*5. Creating financial models and predicting future trends using financial data.*

*6. Deploying the financial model using Flask web framework.*

**About yfinance:**

*yfinance is a Python library that provides an easy way to download financial data from Yahoo Finance. It is a popular library for fetching stock market data from Yahoo Finance API. This library allows you to get stock market data such as current stock price, historical stock prices, financial statements, and much more. In this project report, we will explore the different functionalities of the yfinance module and how it can be used to fetch financial data from Yahoo Finance.*

**Chapter - 3**

**Geotagged Images of Students at the place of work**

|  |  |
| --- | --- |
| **Geotagged Image 1** | **Geotagged Image 2** |
| **Geotagged Image 3** | **Geotagged Image 4** |

**Chapter - 4**

**Findings and Conclusion**

*The yfinance module provides a simple and easy-to-use interface for accessing financial data from Yahoo Finance.*

*The goal of this project is to analyze financial data using the yfinance module in Python. The project will involve fetching financial data from Yahoo Finance using the yfinance module, processing the data, and visualizing it using various visualization libraries such as Matplotlib.*

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**Bibliography/ References**

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